MATERIAL SAFETY DATA SHEET

I
CAROLINA BIOLOGICAL

1. PRODUCT DESCRIPTION
Product Name: Indole-3-Acetic Acid
Size: 100 mg, 1 g, 5 g, 25 g, 100 g
Chemical Name: Indole-3-Acetic Acid
CAS Number: 87-51-4
Formula: C10H9NO2
Synonyms: IAA, Heteroauxin, Rhizopin
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm ET) M-F
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS
Principle Hazardous Components: Indole-3-Acetic Acid (CAS# 87-51-4) 90-100%
TLV and PEL units: None Established

3. HAZARD IDENTIFICATION
Emergency Overview: Hazardous if ingested, inhaled, or absorbed through skin.

4. FIRST AID MEASURES
Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give plenty of water. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES
Flash Point (Method Used): No information available
NFPA Rating: None established
Extinguisher Media:
Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: No information available
Autoignition Temperature: No information available
Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.

6. SPILL OR LEAK PROCEDURES
Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and
containerize for disposal.

7. SPECIAL PRECAUTIONS
Precautions to be Taken in Handling or Storing: Store tightly closed in a freezer at -20 to 0 C.

8. SPECIAL PROTECTION INFORMATION
Respiratory Protection (Specify Type): NIOSH/MSHA-approved respirator
Ventilation:
Local Exhaust: Yes
Mechanical (General): Yes
Special: No
Other: No
Protective Gloves:
Rubber, neoprene, PVC, or equivalent.
Eye Protection:
Splash proof chemical safety goggles should be worn at all times.
Other Protective Clothing or Equipment:
Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA
Molecular Weight: 175.18
Melting Point: 165-169 C
Boiling Point:
Vapor Pressure:
Vapor Density (Air=1):
Specific Gravity (H2O=1):
Percent Volatile by Volume:
Evaporation Rate (H2O=1):
Solubility in Water:
Appearance and Odor:
Sparingly soluble
Off-white powder with slight odor.

10. REACTIVITY DATA
Stability: Stable
Conditions to Avoid: None known
Incompatibility (Materials to Avoid): Strong oxidizing agents
Hazardous Decomposition Products: COx, NOx
Hazardous Polymerization: Will not occur

11. TOXICITY DATA
Toxicity Data: ipr-mus LD50: 150 mg/kg
Effects of Overexposure:
Acute: See section 3
Chronic: Mutation, reproductive, and tumorigenic data cited.
Conditions Aggravated by Overexposure: May cause irritation to skin, eyes, and respiratory tract. Ingestion may cause irritation to gastrointestinal tract.
Target Organs: Musculoskeletal system
Primary Route(s) of Entry: Ingestion and skin

12. ECOLOGICAL DATA
EPA Waste Numbers: N/A

13. DISPOSAL INFORMATION
Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION
Non-regulated

15. REGULATORY INFORMATION
EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

<table>
<thead>
<tr>
<th>SARA Sec. 313</th>
<th>SARA EHS Sec. 302</th>
<th>Chemicals Name</th>
<th>Chemical Category</th>
<th>CERCLA Sec. 103</th>
<th>RCRA RQ lbs.</th>
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Indole-3-Acetic Acid No No No No No

16. ADDITIONAL INFORMATION
The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary
ACGIH ....... American Conference of Governmental Industrial Hygienists
CAS Number .... Chemical Services Abstract Number
CERCLA .... Comprehensive Environmental Response, Compensation, and Liability Act
DOT .......... U.S. Department of Transportation
IARC .......... International Agency of Research on Cancer
N/A .......... Not Available
NTP .......... National Toxicology Program
OSHA .......... Occupational Safety and Health Administration
PEL .......... Permissible Exposure Limit
ppm .......... parts per million
RCRA .......... Resource Conservation and Recovery Act
SARA .......... Superfund Amendments and Reauthorization Act
TLV .......... Threshold Limit Value
TSCA .......... Toxic Substances Control Act
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